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# THE MIGRANT

A QUARTERLY JOURNAL
DEVOTED TO TENNESSEE BIRDS

PUBLISHED BY
THE TENNESSEE
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# THE MIGRANT

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# THE MIGRANT

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## GREAT WHITE HERON AT SOUTH HOLSTON LAKE, TENNESSEE AND VIRGINIA

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Formerly a separate species, the Great White Heron (*Ardea herodias occidentalis*) was lumped with the Great Blue Heron (*A. herodias*) in 1973 (A.O.U. 1973); however, sightings of this distinctive color morph are still noteworthy, especially those from outside its normal range.

On 15-16 October 1990 the authors observed a Great White Heron in the Spring Creek section of South Holston Lake on both sides of the border separating Sullivan County, Tennessee, and Washington County, Virginia. This site is about 400 km inland. Seen perched across the lake late in the afternoon of the 15th, the heron was first identified by Langridge using a Questar spotting scope with 40x and 80x eyepieces. Knight and Cross were not comfortable with the identification until the next day when closer and more extensive views were obtained. At noon on the 16th we found the bird in the same area, but on our side of the lake. We were able to study it for about 45 minutes at a range of 100-300 m as it foraged in shallow water at the mouth of the cove. Viewing conditions were good, as the sky was clear and the sun was to one side or behind us. Optics used were the Questar mentioned above, which provided the best views, plus additional spotting scopes (20x and 15-45x) and binoculars. This heron was seen by others through 19 October.

The large size of this bird was readily apparent. Seen walking along the shore within 5-6 m of a Great Blue Heron, the Great White Heron was as tall and heavily bodied, if not slightly more robust. Its plumage was all clean white. The bill was noticeably heavier than the bill of the nearby Great Blue Heron and was pale yellow with a dusky ridge on the upper mandible. The legs were greenish-yellow, as seen while the bird was walking along the shore; but, when we got too close and the heron flushed, we could see that the backs of the legs were bright yellow. A distant photo of the bird in flight taken by Cross shows this feature. By contrast, the Great

Egret (*Casmerodius albus*) is obviously smaller and black-legged. At times, the heron's crown showed two short, narrow plumes.

Langridge, who lives in south Florida during the winter and northeast Tennessee during the summer, has had considerable experience with this heron. Knight had seen this form in southern Florida previously, but Cross had not. All of the standard field guides were consulted prior to our return visit on the 16th, but Pough (1951) provided the most complete description and discussion of distinguishing characteristics.

This sighting was accepted as the first state record of this morph for Tennessee and the second for Virginia (oddly both in the Ridge and Valley region) by the respective state bird records committees. There was concern by at least one committee member that this bird was possibly an albino Great Blue Heron. I have been unable to find any records of a total albino of that species. Such a bird would be difficult to distinguish; however, the bill size and leg color of the South Holston Lake bird are consistent with Great White Heron.

Amazingly, a Great White Heron, almost certainly the same one, was seen in the same location 29 August - 12 September 1991. Seen at very close range, it was carefully compared to a nearby Great Blue Heron by Wallace Coffey and others who noted the same features mentioned above.

The Great White Heron breeds from southern Florida, west to the coast of Mexico's Yucatan Peninsula, and south through the Caribbean to islands off the northern coast of Venezuela; they usually winter in or near the same region (A.O.U. 1983). They sometimes wander north in Florida and occasionally along the coasts west to Texas and north to North Carolina, with an accidental record in Pennsylvania (*op. cit.*). There are at least six coastal or lower coastal plain records in Georgia (Haney *et al.* 1986), four in South Carolina (Post and Gauthreaux 1989), and some in North Carolina (H. E. LeGrand, Jr. *pers. comm.*). In addition, there are at least 13 inland records (Table 1) in the Southeast, outside Florida, prior to the one reported here. Of these, seven occurred during 1987-1990 in what one regional compiler called a "bizarre string of inland reports" with few if any coastal reports during the same period (LeGrand 1990a:1124). The South Holston Lake occurrences appear to be a continuation of this phenomenon.

## ACKNOWLEDGMENTS

We thank Harry E. LeGrand, Jr. for comments that improved the manuscript.

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Table 1. Inland records of Great White Heron in the southeastern U.S.

| State | Location | Date | Reference |
|---|---|---|---|
| GA | Laurens Co. (upper coastal plain) | 3-31 Jan 1978 | Haney *et al.* 1986 |
| GA | Morgan Co. (piedmont) | 21 Jun 1981 | Haney *et al.* 1986 |
| GA | Augusta (fall line) | 5 June - 7 Aug 1982 | Haney *et al.* 1986 |
| GA | Cherokee Co. (piedmont) | 4 Jul 1988 | Moore 1988 |
| GA | Conyers (piedmont) | 13-27 May 1990 | LeGrand 1990a |
| SC | upper Lake Murray (piedmont) | 11 Nov 1988 | LeGrand & Lynch 1989 |
| NC | Durham (piedmont) | 2 Jul 1926 | Pearson *et al.* 1942 |
| NC | Greensboro (piedmont) | 6 Sep 1943 | Stevenson 1950 |
| NC | Greensboro (piedmont) | 8-30 Jul 1987 | LeGrand 1988 |
| NC | Jordan Lake (piedmont) | 13-31 Aug 1988 | LeGrand & Lynch 1989 |
| NC | Raleigh (fall line) | 21 Apr 1989 | LeGrand 1990b |
| NC | Goldsboro (upper coastal plain) | 8-26 Aug 1990 | LeGrand 1991 |
| VA | Botetourt Co. (ridge and valley) | 1-4 Jun 1976 | Kain 1987 |

Accepted 11 September 1992.

## MEMPHIS ARTIST DESIGNED NEW COVER

Teresa Price Bullock, daughter-in-law of TOS member Carolyn Bullock, designed the new cover for ***The Migrant.*** The design, which appears on this issue, was first used on the 75th Anniversary issue, December 1990.

The TOS Board of Directors voted 31 October 1992 to use the design on future issues of the journal.

"I was very pleased with the way the anniversary issue turned out and was more than happy to do the design, especially for Lula (Coffey). She and Ben (Coffey) are so precious to our entire family," she wrote in a letter to the journal's editor on 25 November 1992.

Teresa Bullock is a staff artist with the Memphis Light and Gas Company.

The previous cover was designed in 1935 by Harry P. Ijams of Knoxville and was first used on the March 1935 issue (***The Migrant*** 6:15, 1935). With few exceptions, it was used for 56 years.

J. WALLACE COFFEY, Editor

*The Migrant*, 63 (1): 4-5, 1992.

# NEW WEST TENNESSEE HERONRIES ESTABLISHED

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Two new heronries were discovered near the Mississippi River in west Tennessee during the summer of 1990. Cattle Egrets (*Bubulcus ibis*), Little Blue Herons (*Egretta caerulea*), Snowy Egrets (*Egretta thula*), and Black-crowned Night-Herons (*Nycticorax nycticorax*) were the dominant species in both heronries. One heronry occurred at Plum Point, near Mississippi River mile 785, Lauderdale County, Tennessee, and the second was located at Cypress Bend, on Island 13, near Mississippi River mile 863, Lake County, Tennessee.

The Plum Point heronry was discovered on 24 June 1990 by Jeff R. Wilson after he noted increased numbers of herons and egrets in nearby fields and then followed their dusk flight lines. Two days later, 26 June 1990, Wilson and Joe B. Guinn visited the heronry and estimated approximately 1200 nests, with a species composition of approximately 80% Cattle Egrets, 10% Little Blue Herons, 5% Snowy Egrets, and 5% Black-crowned Night-Herons. Recently fledged Black-crowned Night-Herons and newly hatched Cattle Egrets and Little Blue Herons were observed. Other species present in the heronry, apparently using it as a roosting site, included 30 Great Egrets (*Casmerodius albus*), 2 Great Blue Herons (*Ardea herodias*), and 2 Green-backed Herons (*Butorides striatus*).

On 6 July 1990, overall hatching was estimated to be about 60% complete for all species (Wilson, Guinn, Dollyann Myers, and Robert P. Ford). The spatial size of the heronry was approximately 75 by 120 meters and the vegetation within the heronry was dominated by willows (family *Salicaceae*) about sapling (<12.5 cm dbh) or pole (12.5 - 28 cm dbh) size. The canopy height averaged about 5 to 6 m tall and in many places 3 m tall. The same species as above apparently continued to roost in the heronry. A final visit was made to the heronry on 11 August 1990 by Wilson and Guinn. They estimated hatching to be about 80% complete.

The Cypress Bend heronry was discovered by Wilson on 7 July 1990 while observing shorebirds on Island 13. The heronry contained approximately 750 nests, approximately 80% were Cattle Egrets, 10% Little Blue Herons, about 7% Snowy Egrets, and 3% Black-crowned Night-Herons. There were 186 Great Egrets and over 200 Great Blue Herons on the island, and a few used the heronry as a roost. Approximately 20% of the nests had young; the remainder of the nests had 2 to 4 eggs. A second visit was made by Wilson on 11 August 1990; most young had fledged, but many nests still had eggs. This heronry was about 100 by 200 m in size, and the vegetation was similar to that described for the Plum Point heronry.

These heronries apparently represent the first in Tennessee to be dominated by Cattle Egrets, a species that first appeared in Tennessee in 1961 (Olson 1961). In west Tennessee, heronries consisting of both Little Blue Herons and Snowy Egrets have occurred at least two times, at Ridgely, Lake County (Ganier 1951) and Dyersburg, Dyer County (Ganier, 1960). Little Blue Herons nest rarely elsewhere in the state; this is, however, apparently the first Snowy Egret breeding record in Tennessee since the Dyersburg heronry broke up in 1969 (Legget 1970). Black-crowned Night-Herons are fairly common in middle and east Tennessee (e.g. the

Bordeaux colony in Davidson Co.) (Pitts 1973), but these observations represent the third and fourth documented nesting records in west Tennessee and the first since 1938 (Gersbacher 1939).

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Accepted 6 August 1992.

## BANDED HOUSE FINCH RECOVERED IN FRANKLIN COUNTY

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Mrs. Lee Medley of Hillsboro, Tennessee, gave me a banded female House Finch *(Carpodacus mexicanus),* which had been found dead under a bird-feeder beside Tims Ford Reservoir in Franklin County, Tennessee, on 4 April 1992. It bore band number 2081-08619. It is preserved as a study skin.

The U. S. Fish and Wildlife Service, Bird Banding Laboratory, reported that it had been banded by Robert K. Bell of Clarksville, Pennsylvania, on 13 July 1991 near Jefferson in southwestern Pennsylvania. Mr. Bell wrote that this bird was an immature caught at his bird feeder, and on 13 July he banded 12 immature and one adult male House Finches. These birds nest mainly in evergreen trees on Mr. Bell's farm. Some nest under aluminum awnings on porches.

Accepted 26 August 1992.

*The Migrant*, 63 (1): 6, 1992.

# FIRST GREAT SMOKY MOUNTAINS NATIONAL PARK RECORD OF WHITE-WINGED SCOTER

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On 16 Nov 1989 at about 1700 hrs (EST), I was completing the Cades Cove Loop, Great Smoky Mountains National Park (GSMNP), Tennessee. Remembering previous successes of finding waterfowl, I proceeded down the gravel drive to the fenced settling pond near the stables. I found three species of waterfowl there — a single Pied-billed Grebe *(Podilymbus podiceps)*, 20 Ring-necked Ducks *(Aythya collaris)*, most of which were males, and one larger, heavier-bodied duck with two light areas on the head. One light area was behind the eye and the other was at the base of the bill. I saw these two marks while the duck was swimming away from me, but with the head turned sideways. Once the duck had turned broadside to me, the obvious white patch on the side posteriorly made easy identification of a White-winged Scoter *(Melanitta fusca)*. The bird was otherwise all dark (black), including an all dark bill. This later point indicated a first winter female.

I observed the scoter for about 15 minutes with 8 x 42 binoculars as well as a 15-60x spotting scope. The light was fading during the time of observation. The scoter did not dive or flap its wings. During the observation, I approached the gate to put my scope between two poles to get a better view. At that time, the Pied-billed Grebe and all Ring-necked Ducks flushed. The scoter simply swam a short distance away.

That evening I contacted Fred Alsop, who authored the bird checklist for GSMNP. He confirmed that no previous records of any scoter species existed for the GSMNP. He encouraged me to report the sighting to the park naturalist, Don Defoe. Defoe indicated the next day on the phone that he was glad to get my report as it confirmed an earlier report an Ohio couple had made at the Sugarlands Visitors Center on 11 Nov 1989. They were John and Kathleen Duchak, 2001 Trentwood Circle, Dayton, Ohio 45459. A personal letter from them indicates they saw an immature White-winged Scoter on 11 Nov 1989.

Accepted 27 October 1992.

*The Migrant*, 63 (1): 7-17, 1992.

# THE 1991 CHRISTMAS BIRD COUNT

Susan N. McWhirter

Twenty-seven counts were conducted across Tennessee for the 1991-1992 season recording a total of 144 species. This is the highest number of counts ever made for the Christmas Count. The late-lingering birds (i.e., Green-backed Heron, Merlin, Spotted Sandpiper, Forster's Tern, Tree Swallow, Cliff Swallow, Sedge Wren, Gray Catbird, Palm Warbler, Black-throated Blue Warbler, Yellow-breasted Chat, Grasshopper and Lincoln's Sparrows) were not unexpected considering the generally mild weather through the fall and early winter, though the variety of species is notable. Few northern birds, such as Pine Siskin and Evening Grosbeak, were reported. Vagrant sightings include the Eurasian Wigeon and Tundra Swans, though neither of these species was documented, and the Rufous Hummingbird, which was banded. Other sightings of note include large numbers of Sandhill Cranes at Hiwassee and Eastern Bluebirds at several locations, while the rare sightings of the Barn Owl continue to be of concern. This year's Rufous Hummingbird and last year's Black-chinned Hummingbird could lead us to reconsider the annual late-fall storage of our feeders. Sixteen counts experienced rain, while only four counts had below freezing temperatures. The abbreviation CW stands for "seen during count week."

## INFORMATION ON THE COUNTS

MEMPHIS — 15 Dec; 0500-1700; clear; temp. 27-51F; wind SW, 5 mph; 32 observers in 7-12 parties; 120 party hours (93 on foot, 27 by car) plus 2 owling; 161 party miles (70 on foot, 91 by car); 90 species, 53,780 individuals. Buzz Bean, Dianne Bean, Carolyn Bullock, Fred Carney, Ben B. Coffey, Lula Coffey, Julian Darlington, Helen Dinkelspiel, Harold Elphingstone, Bob Endres, Jim Ferguson, Bob Ford, Bill Fowler, Murray Gardler, Beverly Griffith, Van Harris, Bob Ilardi, Ginger Ilardi, Theresa Irion, David Kesler, Keith Kunkel, Jo Levy, Jeff McCabe, Frank McCamey, Mac McWhirter, Susan McWhirter, Dollyann Myers, George Payne, Jeanne Payne, Rob Peeples, Bill Peeples, Dick Preston, Ernie Restivo, Richard Spore, Richard Taylor, Phil Waldron, Martha Waldron (compiler — 1626 Yorkshire Dr., Memphis 38119), Barbara Wilson.

REELFOOT LAKE — 17 Dec; 0630-1730; clear; temp. 45-55 F; wind NW, 5-10 mph; 11 observers in 5 parties; 41 party hours (18 on foot, 23 by car); 232 party miles (14 on foot, 218 by car); 101 species, 214,202 individuals. Good details for Cliff Swallow (DD), a first CBC record. Dianne Bean, Ben B. Coffey, Lula Coffey, Donald Doster, Harold Elphingstone, Bill Fowler, Mark Greene, Frank McCamey, Dick Preston, Bettie Sumara, Eddie K. Wilbanks (compiler — 407 Wynn St., Tiptonville 38079).

JACKSON — 28 Dec; 0700-1700; cloudy with some light rain; temp. 41-49 F; wind W, 5-10 mph; 12 observers in 6 parties; 43 party hours (16 on foot, 27 by car); 411.5 party miles (10.5 on foot, 401 by car); 65 species, 22,679 individuals. Joyce Campion, Howard Davis, Bob Ford, Gail Greene, Mark Greene (compiler — 194 Mount Orange Rd., Trenton 38382), Helen Hight, Bill Reinke, Jackie Utley, Donna Ward, Eddie Wilbanks, Lynn Williams.

DRESDEN — 23 Dec; 0700-1600; cloudy and foggy with light rain; temp. 45-50 F; wind NE, 0-5 mph; 5 observers in 3 parties; 21 party hours (14 on foot, 7 by car) plus 1 owling; 185 party miles (11 on foot, 174 by car) plus 10 owling; 65 species, 11,900 individuals. Harry Chandler, Donald Doster (compiler — Rt. 1, Box 574, Dresden 38225), Greg Ellis, Mark Greene, Sam Tucker.

SAVANNAH — 28 Dec; 0500-1700; cloudy with intermittent drizzle and fog; temp. 42-46 F; wind WNW, 0-5 mph; 13 observers in 8 parties; 69.5 party hours (34 on foot, 28 by car, 7.5 by boat) plus 2 owling; 405.5 party miles (27.5 on foot, 338 by car, 40 by boat) plus 31 owling; 96 species, 17,391 individuals. Good details submitted on Greater Scaup (DS), Merlin (DP), Rough-legged Hawk (LN, MS), Sedge Wren (JP), and Lapland Longspurs (WB, NP). Walt Burch, Jeff Garner, Deanna Gilchrist, Lois Johnson, Larry Neil, Phyllis Nofzinger, Johnny Parks, Dee Patterson, Ned Piper, Dick Preston, Floyd Sherrod, Damien Simbeck (compiler — 1539 Helton Dr. A-1, Florence, AL 35630), Michael Sorozak.

CROSS CREEKS NWR — 15 Dec; 0400-1600; no information on weather; 8 observers in 4 parties plus 3 at feeders; 38 party hours (11 on foot, 27 by car) plus 1.5 owling; 359 party miles (14 on foot, 345 by car) plus 15.5 owling; 100 species, 13,874 individuals. No details submitted on Eurasian Wigeon. Don Blunk (compiler — Rt. 2, Box 791-C, Dover 37058), Jerry Drewry, Justin McClellan, Sarah McClellan, Bob Odear, Chris Sloan, Joe Stone, Sabin Thompson. At feeders: Gayle Boone, Vicki Grafe, (third person at feeder not reported — Editor).

BUFFALO RIVER — 29 Dec; 0630-1715; cloudy with light rain in AM; temp. 43-45 F; wind W, 0-20 in AM and N, 0-20 in PM; 8 observers in 4 parties plus 1 at feeder; 30.75 party hours (16.5 on foot, 14.25 by car) plus 2 at feeder and 1.5 owling; 201 party miles (14 on foot, 187 by car) plus 5 owling; 71 species, 18,776 individuals. Michael Beurlein, David Ihrie, Royce Neidert, Jane Newell, Donette Sellers, Don Simbeck (compiler — 424 Riddle Ln., Loretto 38469), Jody Springer, Morris Williams, Wylie Willis.

CLARKSVILLE — 28 Dec; heavy overcast with intermittent light rain; temp. mid 40's; no wind; 15 observers in 5 parties; 41 party hours (15.25 on foot, 25.75 by car); 271 party miles (12 on foot, 259 by car); 64 species, 8,658 individuals. Amy Atkins, Marilyn Farley, Danny Harrison, Ken Haskins, Bonnie Kruck, Leonard Kruck, William Lyle, Bill Milliken, Gloria Milliken, Barry Podell, Louise Podell, David Snyder (compiler — Austin Peay State Univ., Dept. of Biology, P.O. Box 4718, Clarksville 37044), Mary Ann Stephens, Barbara Wilbur, Stanley York, Jr.

COLUMBIA — 21 Dec; 0600-1700; cloudy with light rain; temp. 45-55 F; wind S, 0-5 mph; 9 observers in 5 parties plus 2 at feeders; 35.5 party hours (14.5 on foot, 21 by car) plus 8 hours at feeders and 6 hours owling; 282.5 party miles (15.5 on foot, 267 by car) plus 20 miles owling; 89 species, 288,720 individuals. Steven Brinkley, William Fuqua, William Jernigan, Allyn Lay, Bedford Lochridge, George Mayfield (compiler — 999 Sunnyside Dr., Columbia 38401), Mark Mayfield, Wendell Robinson, Karen Stephens, plus Mary Lyles and Cleo Mayfield at feeders.

NASHVILLE — 21 Dec; 0645-1630; cloudy with rain and fog; temp. 41-51 F; wind SE, 1-3 mph; 27 observers in 7 parties plus 9 at feeders; 58.5 party hours (20.5 on foot, 38 by car) plus 2.25 owling; 257 party miles (16 on foot, 241 by car) plus 2.25 owling; 78 species, 10,279 individuals. The Rufous Hummingbird confirmed and banded

by hummingbird expert Bob Sargent of Trussville, AL. Jane Bottari, Bob Brayden, Drake Caldwell, Elizabeth Collins, Marie Connors, Richard Connors, Jerry Drewry, Bob Ford, Edwin Gleaves, Rosalie Hammond, Barbara Harris, Bob Hatcher, Cheryl Hiers, Pamilla Hopkins, Edward Landers, Galen Lenhart, Miles McCrickard, Joseph McLaughlin, Gail Miller, Dick Newton, Magnus Persmark, Christopher Sloan, Ann Tarbell, Edwin Toone, Oma Vaughn, Kenneth Walkup, Miriam Weinstein. At feeders: Thomas Bottari, Lucy Finch, Mary Jackson, Laura Knox, Jane Maynard, Sharon Monroe, Marjorie Patrick, Virginia Price, and Barbara Winfield.

HICKORY-PRIEST — 1 Jan; 0545-1715; clear; temp. 33-52 F; wind S, 6-12 mph; 16 observers in 6 parties; 57 party hours (27 on foot, 30 by car) plus 2 owling; 396 party miles (23 on foot, 373 by car) plus 7 owling; 83 species, 10,379 individuals. The Merlin has been at the same location for the past 5 winters; the Peregrine Falcon is a resident of the tall buildings in downtown Nashville. Linda Anderson, Jane Bottari, Richard Connors, Jerry Drewry (compiler — 1115 Golf Course Ln., Ashland City 37015), Mark Hackney, Bette Halverstadt, Ed Landers, Joe McLaughlin, Dena Shulte, Chris Sloan, Joe Stone, Ann Tarbell, Sabin Thompson, Bates Toone, Ed Toone, Betty Worden.

MURFREESBORO — 4 Jan; cloudy with drizzle; temp. 35-45 F; wind gusting 10-20 mph; 16 observers in 11 parties; 41 party hours (19 on foot, 22 by car) plus 15 at feeders; 343 party miles (5 on foot, 338 by car); 64 species, 44,443 individuals. Good details for Rough-legged Hawk (RM). Bertha Chreitzberg, Bill Erwin, Lou Erwin, Jeff Helbig, Anne Hettish, Bob Hettish, Richard Hunter, Wilma Hunter (compiler — Rt. 6, Box 58, Murfreesboro 37130), Pat Martin, David McCarrol, Ruth McMillan, Gene Odom, Ruth Odom, Alberta Spence, Ferrell Wilson, Terry Witt.

LEBANON — 21 Dec; 0700-1400; overcast with rain and drizzle; temp. 44-48 F; 8 observers; 19.25 party hours (including 8.25 at feeders); 75 party miles (3 on foot, 72 by car); 42 species, 1,794 individuals. Earline Berry, Vernon Berry, Ruth McMillan, Kay Norris (compiler — 1609 Ponderosa Trail, Lebanon 37087), Larry Norris, Anna Parker, Melissa Turrentine, Roy Turrentine.

HIGHLAND RIM — 28 Dec; 0530-1800; cloudy; temp. 45-55 F; wind NE, 7 mph; 16 observers in 9 parties; 38 party hours (6 on foot, 32 by car) plus 1.5 owling; 336 party miles (9 on foot, 327 by car) plus 15 owling; 80 species, 5,987 individuals. John Bruner, Lois Bruner, Tom Burleson, Sr., Tom Burleson, Jr., Don Davidson (compiler _ 1703 2nd Ave., Manchester 37355), Marguerite Hernandez, Ruth Luckado, Nickie Medley, Philip Medley, Chloe Peebles, J. Howell Peebles, Erma Rogers, Quincy Stykes, Stewart White, Grady York, Willa York.

McMINNVILLE — 28 Dec; foggy with rain; 7 observers in 3 parties; 22.5 party hours (3 on foot, 19.5 by car), 222.5 party miles (1.5 on foot, 221 by car); 57 species, 11,114 individuals. Denise Delong, Ruth Ann Henry, Tim Jones, Clyde Malone, James Pearsall (compiler — 117 Beech Hill Dr., McMinnville 37110), Donna Ware, Micky Ware.

NICKAJACK LAKE — 21 Dec; 0500-1700; fog and rain; temp. 39-46 F; 23 observers in 8 parties; 69 party hours (37.75 on foot, 27.25 by car, 4 by boat) plus 5.25 owling; 298.5 party miles (23.5 on foot, 265 by car, 10 by boat) plus 57 owling; 93 species, 24,691 individuals. Good details for the Merlin (JI, JP), Peregrine Falcon (JI, JP), and Palm Warblers (DJ, KJ, PH, SK). Clyde Blum, Mary Buttram, Corey 3.5

Davidson, E.O. Grundset, Paul Harris, John Henderson, Jerry Ingles, Daniel Jacobson, Kathy Jacobson, Al Jenkins, Starr Klein, Barbarita Nieri, Johnny Parks (compiler — 1610 East 17th St., Chattanooga 37404), Tom Patton, Tommie Rogers, Robin Rudd, Joe Stone, Carl Swafford, Dale Taylor, Bernie Tompkins, Brent Tompkins, Waldo Tompkins, David Vogt.

COOKEVILLE — 17 Dec; 0430-1700; clear; temp. 37-53 F; wind SW, 10-20 mph AM, NW, 5-10 mph PM; 16 observers in 6 parties plus 15 at feeders; 55.75 party hours (19 on foot, 36.75 by car) plus 32.5 at feeders and 5 owling; 328.5 party miles (17.5 on foot, 311 by car) plus 53 owling; 78 species, 6,385 individuals. Highest species total for Cookeville count; 26 species seen in highest numbers ever, though total individuals low. Phillip Bettoli, Daniel Combs, Charles Crumpler, Frank Fiss, David Hume, Amy Johnson, Graham Kash, Tracy Richter, Thomas Roberts, Ann Sanders, Michael Sanders, Joanne Schaefer, Richard Simmers, Barbara Stedman, Stephen Stedman (compiler — 2675 Lakeland Dr., Cookeville 38501), Evelyn Stites, Winston Walden.

CHATTANOOGA — 14 Dec; 0715-1745; cloudy to partly cloudy; temp. 32-59 F; wind WNW, 7-14 mph; 30 observers in 11 parties including 4 at feeders; 94 party hours (58.75 on foot, 35.25 by car) plus 11 owling; 480 party miles (42 on foot, 438 by car) plus 82 owling; 99 species, 32,526 individuals. Good details on Merlin (AJ, BM, MM), Yellow-breasted Chat (KD, DV), and Grasshopper Sparrow (JH, PR). Clyde Blum, Jeff Boehm, Edith Bromley, Mary Lynn Buttram, Brainerd Cooper, Pat Crowe, Ken Dubke, Lil Dubke, Bill Haley, Paul Harris, John Henderson (compiler — 7323 Fairington Cl., Hixon 37343), Dan Jacobson, Al Jenkins, Elena Killian, Polly Lane, Jonnie Sue Lyons, Barbara McMahan, Mike McMahan, Tom Patton, Bob Pierce, Don Ritzhaupt, Peter Robinson, Tommie Rogers, Pam Rudd, Robin Rudd, Bernie Tompkins, David Vogt, Dan Williams, Dick Wodzenski, Libby Wolfe.

HIWASSEE — 1 Jan: 0500-1800; clear to foggy and cloudy; temp. 28-46 F; wind NW, 5 mph; 16 observers in 7 parties; 69 party hours (55 on foot, 10 by car, 4 by boat) plus 5 owling; 407.5 party miles (29.5 on foot, 355 by car, 23 by boat) plus 22 owling; 96 species, 14,738 individuals. Clyde Blum, Kevin Calhoun, Richard Clark, Andrew Core, Ken Dubke, Lil Dubke, Bill Haley, Audrey Hoff, Charles Nicholson, Johnny Parks, Tommie Rogers, Robin Rudd (compiler — 7611 Davidson Rd., Chattanooga 37421), Boyd Sharp, Burney Tompkins, David Vogt, Dick Wodzenski.

NORRIS — 14 Dec; 0630-2145; overcast with light rain in early AM; wind variable with gusts to 20 mph in PM; 9 observers in 4 parties plus 1 at feeder; 39.5 party hours (20.5 on foot, 19 by car) plus 2.5 owling; 289.5 party miles (16.5 on foot, 273 by car) plus 7 owling; 67 species, 6,995 individuals. Linda Armstrong, Bob Collier, David Hankins, Audrey Hoff, George McKinney, Charles Nicholson (compiler — P.O. Box 402, Norris 37828), Mike Ryan, Beth Schilling, Boyd Sharp, plus Grace Foster at feeder.

KNOXVILLE — 16 Dec; 0615-1745; cloudy to partly cloudy; temp. 44-57 F; wind variable, 0-10 mph; 23 observers in 17 parties plus 2 at feeders; 90 party hours (48.75 on foot, 41.25 by car) plus 7 at feeders and 2 owling; 474 party miles (39 on foot, 435 by car) plus 17 owling; 82 species, 12,981 individuals. Jane Beintema, Betty Reid Campbell, James Campbell, Bob Collier, Lara Collier, Andrew Core, Marcia Davis, Barbara Finney, Jim Finney, Louise Fuller, Brice Gilmer, Paul Hartigan, Audrey

Hoff (compiler — 4523 McCloud Rd., Knoxville 37938), Ron Hoff, Tony Koella, Bettie Mason, James Mason, Chester Massey, Charles Nicholson, Holly Overton, Mark Reeves, Mike Ryan, Boyd Sharp.

GREAT SMOKY MOUNTAINS NATIONAL PARK — 29 Dec; 0630-1730; cloudy with light rain, freezing rain and light snow at high elevations; temp. 32-46 F; wind variable at 5-10 mph; 19 observers in 9 parties; 79.25 party hours (54.5 on foot, 24.75 by car) plus 1 owling; 313 party miles (50 on foot, 263 by car) plus 10 owling; 64 species, 3,442 individuals. The numbers for Black-capped Chickadees includes Carolina Chickadees, as they were in mixed flocks. Jane Beintema, Betty Reid Campbell, James Campbell, Don Defoe (non-participating compiler — GSMNP, Gatlinburg 37738), Paul Drescher, Gwynn Evans, Paul Hartigan, Audrey Hoff, Susan Hoyle, Kris Johnson, Burt Jones, Tony Koella, Agnes Marshall, Mack Marshall, Charles Nicholson, Holly Overton, Martha Rudolph, Michael Ryan, Beth Schilling, Eileen Wilson.

GREENEVILLE — 28 Dec; 0600-1800; cloudy with rain; temp. 38-45 F; wind NE, 5 mph; 16 observers in 10 parties; 37.5 party hours (19.5 on foot, 18 by car); 173 party miles (12 on foot, 161 by car); 58 species, 5,255 individuals. Justino Carlos, Cynthia Cragin, Herb Cragin, Susan Ford, Helen Gaut, Juanita Heckert, Lenard Heckert, Jim Holt (compiler — 311 Colonial Cl., Greeneville 37743), Alice Loftin, Don Miller, Richard Nevius, Willie Ruth Nevius, Doug Ratledge, Reta Taylor, Virginia Williams, plus 4 at feeders.

KINGSPORT — 21 Dec; 0800-1730; steady rain; temp. constant 34 F; wind 0-2 mph; 48 observers in 10 parties; 61.75 party hours (8.5 on foot, 53.25 by car) plus 2.5 owling; 477.5 party miles (9.5 on foot, 468 by car) plus 29 owling; 70 species, 9,227 individuals. Good details on the Dunlin (RK) and Merlin (TP, JF, PL). Jennifer Allen, Jessica Arbogast, John Audemore, Danny Blakely, Sandra Blakely, Tom Bowman, Mike Camponovo, M.J. Erwin, John Faust, Jonathan Gray, Emily Gubler, Brenda Hall, Mark Helm, Anna Hess, Errol Hess, Maggie Hess, Jean Horton, Nicholas Jackson, Richard Jackson, T.J. Jackson, Rick Knight, George Larkins, Suzanne Larkins, Violet Larkins, Bill Little, Priscilla Little, Kimberly Mellens, Ron Pendleton, Tom Pridgen, Bob Quillen, Debbie Shoun, Jared Shoun, Emily Sikora, Arthur Smith (compiler — 100 Otari Dr., Kingsport 37664), Jack Sullivan, John Sullivan, Glenn Swofford, Brad Vaughn, Kris Vaughn, Travis Vaughn, Jim Wayland, Shirley Wayland, Forest Wilhelm, Van Wilhelm, Frank Williams, Kristin Zimet, Nicholas Zimet, Zachary Zimet; includes "kids count".

ELIZABETHTON — 15 Dec; 0600-1730; clear; temp. 18-36 F; wind W, 5-15 mph; 23 observers in 6 parties; 49 party hours (22.5 on foot, 26.5 by car) plus 2 owling; 327 party miles (13 on foot, 314 by car) plus 14 owling; 67 species, 5,932 individuals. Good details for Black-throated Blue Warbler (WC, RM, KH). Fred Alsop, Jim Brooks, Janet Brown, Wallace Coffey, Brian Cross, Martha Dillenbeck, Rusty Dunn, Elizabeth Funkhouser, Ken Hale, Dick Hegler, Danny Huffine, Rick Knight (compiler — 804 N. Hills Dr., Johnson City 37604), Pam Lewis, Dick Lura, Rad Mayfield, Tom McNeil, Rita Scher, Glenn Swofford, Julie Tomita, Gary Wallace, Frank Ward, Jim Wayland, Shirley Wayland.

BRISTOL — 29 Dec; 0700-1730; heavy fog and light rain; temp. 38-47 F; wind SW, 0-10 mph; 18 observers in 7 parties; 48.5 party hours (19.5 on foot, 29 by car) plus

Loraine Hale, Ron Harrington, Joe Jackson, Lloyd Jones, Rick Knight, Tom Laughlin, Richard Lewis (compiler — 407 V.I. Ranch Rd., Bristol 37620), Alice Nair, Bob Quillen, John Shumate, Lorrie Shumate, Randy Smith, Mark Spivey.

ROAN MOUNTAIN — 22 Dec; 0600-1700; partly cloudy, isolated fog early; temp. 31-45 F; wind W, 0-20 mph; 7 observers in 2 parties; 19.5 party hours (12 on foot, 7.5 by car) plus 1 owling; 111 party miles (8 on foot, 103 by car) plus 1 owling; 52 species, 1,649 individuals. Fred Alsop, Jim Brooks, Danny Huffine, Rick Knight (compiler — 804 N. Hills Dr., Johnson City 37604), Cathi Sullins, Jim Wayland, Shirley Wayland.

# THE 1991 CHRISTMAS BIRD COUNT

| *Species* | Memp | Reel | Dres | Jack | Sav | CCWR | Buff | Clark | Colu | Nash | Hick-Pr | Murf | Leba | High | McMinn | Nick | Cooke | Chat | Hiwa | Norris | Knox | GSMNP | Gree | King | Eliz | Bris | Roan |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Common Loon | * | * | * | * | * | 1 | * | * | * | * | 21 | 3 | * | 12 | * | 4 | * | 21 | 2 | * | * | * | * | * | 5 | * | * |
| Pied-billed Grebe | 3 | 8 | 1 | 1 | 44 | 2 | 2 | 1 | 7 | 2 | 49 | 1 | 6 | 9 | 5 | 190 | 3 | 112 | 35 | * | 13 | * | 3 | 25 | 11 | 16 | 1 |
| Horned Grebe | * | * | * | * | 13 | * | * | * | * | * | 114 | * | * | 11 | * | 9 | * | 43 | 4 | * | * | * | * | * | 1 | * | * |
| Double-crested Cormorant | 100 | 661 | * | * | CW | 5 | * | * | * | * | * | * | * | 3 | * | 11 | * | 4 | 30 | * | 18 | * | * | * | * | * | * |
| Great Blue Heron | 22 | 44 | 4 | 10 | 121 | 75 | 11 | 12 | 15 | 13 | 22 | 11 | 5 | 11 | 8 | 152 | 10 | 112 | 172 | 13 | 125 | 2 | 9 | 36 | 10 | 23 | 1 |
| Great Egret | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 2 | * | * | * | * | * | * |
| Green-backed Heron | * | * | * | * | * | 1 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 1 | 1 | * | * | * | * | * |
| Blk-crowned Night-Heron | * | * | * | * | * | * | * | * | * | * | 12 | * | * | * | * | * | * | * | * | * | 11 | * | * | 5 | * | * | * |
| Tundra Swan | * | CW | * | * | * | 2 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| Gr. Wht-fronted Goose | * | 1 | * | * | * | 2 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| Snow Goose | 11 | 1bl, 2s | * | * | * | 4s | * | * | 3bl | * | 1 | * | * | * | * | * | * | * | * | * | * | * | 3 | * | * | * | * |
| Canada Goose | 80 | 47,000 | * | CW | * | 2,517 | 138 | 2 | 327 | * | 796 | 120 | 27 | 138 | 158 | 368 | 141 | 155 | 761 | 286 | 742 | * | 202 | 398 | 39 | 284 | * |
| Wood Duck | 20 | 8 | 2 | 2 | 4 | 75 | * | 10 | 17 | 315 | * | 3 | * | * | 3 | 2 | 6 | 6 | 1 | * | 2 | * | 5 | * | * | * | * |
| Green-winged Teal | * | 3 | * | 7 | 2 | 1 | * | 2 | 4 | * | * | * | * | * | * | * | CW | 9 | 31 | * | * | * | 7 | * | * | 12 | * |
| American Black Duck | * | 1,600 | * | * | * | 2,127 | * | 6 | 9 | * | 6 | * | * | 11 | * | 17 | CW | 29 | 310 | * | 1 | * | 92 | 4 | 2 | 3 | 4 |
| Mallard | 419 | 94,900 | 7 | 8 | 14 | 2,018 | 20 | 120 | 60 | 5 | 262 | 30 | 40 | 65 | 22 | 358 | 10 | 247 | 765 | 47 | 159 | 73 | 102 | 301 | 125 | 267 | 2 |
| Northern Pintail | 1 | 5 | * | * | 1 | 11 | * | * | * | 70 | 6 | 3 | * | * | * | * | * | 6 | 40 | * | * | * | * | 1 | * | * | * |
| Blue-winged Teal | * | 2 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| Northern Shoveler | 2 | 13 | * | * | * | 10 | * | * | 24 | * | * | * | * | * | * | * | 3 | 3 | * | * | * | * | * | * | * | * | * |
| Gadwall | 7 | 410 | * | * | * | 302 | * | 2 | 128 | 28 | 10 | * | * | 17 | * | 1,104 | * | 100 | 143 | * | 7 | 8 | 2 | 7 | * | * | * |
| Eurasian Wigeon | * | * | * | * | * | 1 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| American Wigeon | * | 65 | * | * | * | 155 | * | * | 66 | 12 | * | * | * | * | 7 | 32 | * | 20 | 10 | * | 1 | * | * | * | 1 | * | * |
| Canvasback | * | 4 | * | * | * | 1 | * | * | 29 | 1 | * | * | * | 5 | * | 54 | * | * | * | * | * | * | * | * | * | * | * |
| Redhead | 2 | 3 | * | * | * | * | * | * | 5 | * | * | * | * | 2 | * | * | * | * | 1 | * | * | * | * | * | * | * | * |
| Ring-necked Duck | * | 318 | * | * | 4 | 350 | * | * | 142 | 51 | 1 | 9 | * | * | * | 81 | 61 | 12 | * | * | 20 | * | * | 17 | 23 | 19 | * |
| Greater Scaup | * | * | * | * | CW | * | * | * | * | * | * | * | * | 5 | * | 4 | * | 9 | 2 | * | * | * | * | * | * | * | * |
| Lesser Scaup | 6 | 613 | * | CW | 13 | * | 1 | * | 34 | 26 | 6 | * | * | 23 | * | 103 | 3 | 17 | * | * | * | * | * | 36 | * | * | * |
| scaup sp. | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 155 | * | * | * | * | * | * | * | * | * | * | * | * |
| Common Goldeneye | * | 7 | * | * | 99 | 8 | * | * | 4 | * | 3 | 30 | * | 9 | * | 11 | * | 71 | * | * | * | * | 3 | * | * | 1 | * |
| Bufflehead | 4 | 45 | * | * | 36 | * | * | * | 4 | 55 | 19 | * | * | 15 | * | 110 | 1 | 23 | 9 | * | 10 | * | 1 | * | 135 | 17 | * |
| Hooded Merganser | 4 | 15 | * | 2 | 3 | 125 | * | * | 56 | 1 | 2 | * | * | 31 | 5 | 31 | 23 | 10 | 154 | * | 13 | * | * | * | * | 95 | 13 |
| Common Merganser | * | 2 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| Red-breasted Merganser | * | 1 | * | * | * | 2 | * | * | * | * | * | * | * | * | * | 3 | * | * | * | * | 8 | * | * | * | * | * | * |
| Ruddy Duck | * | 2,532 | * | * | * | * | * | * | 8 | * | * | * | * | * | 6 | 76 | * | 1 | * | * | * | * | * | 2 | * | * | * |
| duck sp. | * | * | * | * | 60 | * | 2 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |

# THE 1991 CHRISTMAS BIRD COUNT

| *Species* | Memp | Reel | Dres | Jack | Sav | CCWR | Buff | Clark | Colu | Nash | Hick-Pr | Murf | Leba | High | McMinn | Nick | Cooke | Chat | Hiwa | Norris | Knox | GSMNP | Gree | King | Eliz | Bris | Roan |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Black Vulture | * | * | 113 | CW | 17 | 39 | 2 | 54 | 31 | 40 | 4 | 23 | 5 | 12 | * | * | 3 | 30 | 101 | 6 | 1 | * | * | 130 | * | 143 | * |
| Turkey Vulture | * | 3 | 92 | CW | 13 | 63 | 35 | 1 | * | CW | * | * | * | 103 | * | * | 32 | 192 | 66 | 13 | 2 | 72 | 2 | 111 | 2 | 39 | * |
| Bald Eagle | * | 50a,41i | * | * | 11a,5i | 3a,1i | * | * | * | * | * | * | * | 2a | * | 1a,5i | * | 3a,1i | 8a,6i | 1a,2i | CW | * | * | * | * | 1 | * |
| Northern Harrier | 8 | 10 | 2 | 1 | 9 | 12 | 8 | 2 | 4 | 4 | 1 | 7 | 1 | 1 | 1 | 6 | 4 | * | 11 | * | * | 2 | 1 | * | * | * | * |
| Sharp-shinned Hawk | 2 | * | * | CW | 1 | 5 | * | * | 1 | 3 | 1 | * | 1 | 1 | * | 7 | 2 | 3 | 5 | 2 | 2 | 1 | * | 2 | 2 | 2 | * |
| Cooper's Hawk | 1 | 1 | * | * | 1 | 4 | * | 1 | 1 | 1 | 1 | 1 | * | * | * | 3 | 3 | 5 | 3 | * | 1 | 1 | 5 | 3 | 1 | 4 | 1 |
| accipiter sp. | * | * | * | * | 1 | * | * | * | * | * | * | * | * | * | * | * | 3 | * | * | * | 3 | * | * | * | * | * | * |
| Red-shouldered Hawk | * | 12 | 4 | 6 | 9 | 12 | 3 | 3 | 2 | * | 5 | * | * | 4 | * | 11 | 1 | 12 | 11 | 6 | 3 | * | * | * | * | * | * |
| Red-tailed Hawk | 56 | 48 | 16 | 43 | 18 | 29 | 18 | 24 | 37 | 19 | 20 | 25 | 4 | 10 | 18 | 28 | 36 | 52 | 42 | 13 | 27 | 13 | 12 | 10 | 12 | 10 | 4 |
| Rough-legged Hawk | * | * | * | * | 2 | * | * | * | 1 | * | * | 1 | * | * | * | * | CW | * | * | * | * | * | * | * | * | * | * |
| buteo sp. | * | * | * | * | * | * | 1 | * | * | * | * | * | * | 2 | * | * | * | * | * | * | * | * | * | * | * | * | * |
| American Kestrel | 27 | 37 | 24 | 32 | 11 | 12 | 32 | 20 | 31 | 41 | 36 | 90 | 16 | 32 | 21 | 19 | 96 | 33 | 27 | 15 | 14 | 18 | 17 | 49 | 22 | 38 | 1 |
| Merlin | * | * | * | * | 1 | 1 | * | * | * | * | 1 | * | * | * | * | 1 | * | 1 | * | * | * | * | * | 1 | * | * | * |
| Peregrine Falcon | * | * | * | * | * | * | * | * | * | * | 1 | * | * | * | * | 1 | * | * | * | * | * | * | * | * | * | * | * |
| Ruffed Grouse | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 2 | * | * | 1 | 1 | 1 |
| Wild Turkey | 15 | 23 | * | * | * | 10 | * | * | * | 18 | * | * | * | 2 | * | * | * | 2 | * | * | * | 1 | * | 1 | * | * | * |
| Northern Bobwhite | 34 | 11 | 12 | 6 | 1 | 23 | 36 | 17 | 41 | 1 | 2 | 5 | 9 | 8 | * | 9 | 29 | * | 22 | * | 6 | 6 | * | * | * | 3 | * |
| Sandhill Crane | * | * | CW | * | * | * | * | * | * | * | * | * | * | 19 | * | * | 60 | 15 | 656 | CW | * | * | * | * | * | * | * |
| Sora | * | * | * | * | * | * | * | * | 2 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| American Coot | 8 | 217 | * | * | 98 | 19 | * | * | 58 | * | 186 | * | 2 | 16 | * | 5,590 | * | 179 | 173 | * | 100 | * | 8 | 85 | * | 27 | * |
| Killdeer | 99 | 183 | 15 | 53 | 550 | 51 | 11 | 33 | 18 | 41 | 82 | 95 | * | 8 | * | 69 | 136 | 203 | 220 | 193 | 193 | * | 15 | 22 | 18 | 9 | * |
| Spotted Sandpiper | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 1 | * | * | * | * | * | * |
| Least Sandpiper | 8 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 2 | * | * | * | * | * | * | * | * |
| Dunlin | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 50 | * | * | * | * | 1 | * | * | * |
| Common Snipe | 8 | 4 | 3 | 1 | 47 | 35 | * | * | 7 | * | 14 | 2 | * | * | * | 1 | 2 | 18 | 185 | * | 5 | * | * | 1 | 3 | 1 | * |
| American Woodcock | 1 | * | * | * | 1 | 3 | * | * | 3 | 2 | 5 | * | * | * | * | 1 | * | 2 | 2 | 1 | * | * | * | * | 1 | * | 1 |
| Bonaparte's Gull | 4 | 15 | * | * | 359 | 26 | * | 2 | * | * | 201 | 20 | * | 13 | * | 85 | CW | 202 | 45 | 19 | 32 | * | * | * | * | 43 | * |
| Ring-billed Gull | 180 | 648 | * | 2 | 636 | 60 | * | 33 | 14 | 80 | 1,484 | 1,000 | 5 | 34 | * | 435 | * | 524 | 196 | 89 | 384 | 25 | * | 156 | 1 | 464 | * |
| Herring Gull | * | 22 | * | * | 11 | * | * | * | * | * | 6 | 2 | * | * | * | 8 | * | 12 | 1 | * | 3 | * | * | * | * | * | * |
| Forster's Tern | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 1 | * | * | * | * | * | * | * | * |
| Rock Dove | 675 | 33 | 44 | 199 | 39 | 9 | 16 | 78 | 573 | 163 | 578 | 100 | 34 | 61 | * | 206 | 148 | 315 | 37 | 165 | 1,001 | 220 | 131 | 210 | 24 | 191 | 9 |
| Mourning Dove | 190 | 78 | 105 | 475 | 209 | 59 | 181 | 181 | 192 | 320 | 137 | 150 | 27 | 188 | * | 256 | 383 | 634 | 64 | 136 | 872 | 225 | 419 | 1,288 | 220 | 826 | 3 |
| Barn Owl | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 1 | 1 | * | * | * |
| Eastern Screech Owl | * | 1 | 1 | * | 4 | 1 | 2 | * | 10 | 5 | 2 | * | * | * | * | 8 | 6 | 4 | 13 | 1 | 4 | 3 | * | 3 | 13 | 7 | 4 |
| Great Horned Owl | 2 | 2 | 7 | CW | 4 | 8 | 1 | * | 5 | 5 | 1 | 1 | 1 | * | * | 7 | CW | 6 | 8 | 1 | 1 | 2 | * | * | 3 | 5 | 2 |

# THE 1991 CHRISTMAS BIRD COUNT

| *Species* | Memp | Reel | Dres | Jack | Sav | CCWR | Buff | Clark | Colu | Nash | Hick-Pr | Murf | Leba | High | McMinn | Nick | Cooke | Chat | Hiwa | Norris | Knox | GSMNP | Gree | King | Eliz | Bris | Roan |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Barred Owl | * | 13 | 4 | 2 | 6 | 2 | 1 | * | 2 | 2 | 4 | * | * | * | * | 2 | 1 | * | * | 2 | * | * | * | * | 1 | * | 1 |
| Short-eared Owl | * | 4 | * | * | 2 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| Rufous Hummingbird | * | * | * | * | * | * | * | * | * | 1 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| Belted Kingfisher | 18 | 8 | 7 | 6 | 36 | 18 | 11 | 12 | 17 | 20 | 23 | 10 | 3 | 5 | 6 | 30 | 7 | 43 | 50 | 12 | 46 | 8 | 9 | 20 | 16 | 10 | 1 |
| Red-headed Woodpecker | 35 | 33 | 10 | 5 | 2 | 6 | 1 | 5 | 2 | 1 | 1 | * | * | 1 | 2 | 8 | 19 | 8 | * | * | 2 | * | * | * | * | * | * |
| Red-bellied Woodpecker | 151 | 123 | 53 | 40 | 89 | 43 | 38 | 65 | 45 | 61 | 18 | 19 | 7 | 10 | 12 | 39 | 54 | 54 | 66 | 15 | 71 | 7 | 11 | 19 | 12 | 21 | * |
| Yellow-bellied Sapsucker | 26 | 21 | 5 | 1 | 19 | 7 | 6 | 5 | 11 | 14 | 12 | 3 | 2 | 1 | 1 | 40 | 3 | 11 | 32 | 5 | 18 | 4 | 1 | 5 | 9 | 2 | * |
| Downy Woodpecker | 62 | 51 | 38 | 30 | 39 | 24 | 44 | 43 | 35 | 82 | 36 | 20 | 12 | 6 | 6 | 34 | 33 | 34 | 39 | 23 | 61 | 15 | 4 | 18 | 22 | 25 | 5 |
| Hairy Woodpecker | 13 | 14 | 3 | 4 | 13 | 6 | 3 | 9 | 5 | 8 | 3 | 4 | * | 1 | * | 4 | 4 | 9 | 12 | 2 | 6 | 14 | 1 | 1 | 6 | 2 | 2 |
| Northern Flicker | 181 | 135 | 104 | 52 | 105 | 26 | 27 | 32 | 28 | 65 | 45 | 19 | 11 | 17 | 34 | 54 | 40 | 120 | 119 | 47 | 58 | 10 | 5 | 41 | 17 | 25 | 2 |
| Pileated Woodpecker | 22 | 17 | 2 | 3 | 16 | 17 | 9 | 12 | 9 | 11 | 4 | * | * | 2 | 1 | 28 | 12 | 13 | 39 | 12 | 17 | 25 | 3 | 5 | 10 | 13 | 2 |
| Eastern Phoebe | 9 | 4 | 1 | 3 | 5 | 1 | 4 | * | 2 | 1 | * | 1 | * | 2 | 3 | 8 | 15 | 14 | 22 | 11 | 4 | 9 | 1 | 1 | 8 | 5 | 3 |
| Horned Lark | 255 | 346 | 36 | 4 | 419 | 33 | 70 | * | 50 | CW | * | CW | * | 3 | * | * | CW | 1 | * | * | * | 20 | * | * | * | * | * |
| Tree Swallow | * | 4 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| Cliff Swallow | * | 1 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| Blue Jay | 409 | 117 | 222 | 418 | 256 | 153 | 83 | 283 | 38 | 128 | 75 | 46 | 34 | 134 | 181 | 349 | 258 | 221 | 138 | 101 | 442 | 66 | 86 | 186 | 91 | 164 | 36 |
| American Crow | 180 | 449 | 88 | 16,000 | 134 | 107 | 266 | 127 | 128 | 662 | 118 | 600 | 82 | 1,400 | 265 | 780 | 504 | 1,256 | 828 | 351 | 1,018 | 377 | 260 | 583 | 1,196 | 630 | 140 |
| Fish Crow | * | 2 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| Common Raven | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 10 | * | * | 32 | 7 | 8 |
| Black-capped Chickadee | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 186 | * | * | * | * | * |
| Carolina Chickadee | 182 | 281 | 49 | 118 | 218 | 119 | 118 | 104 | 110 | 224 | 140 | 64 | 34 | 11 | 5 | 148 | 141 | 254 | 194 | 156 | 404 | note | 53 | 116 | 94 | 77 | 45 |
| Tufted Titmouse | 133 | 116 | 47 | 46 | 135 | 88 | 120 | 50 | 82 | 152 | 77 | 37 | 20 | 13 | 7 | 118 | 93 | 236 | 95 | 83 | 183 | 47 | 24 | 73 | 72 | 51 | 27 |
| Red-breasted Nuthatch | 1 | 16 | * | * | 2 | 3 | * | 2 | * | 2 | * | * | * | 1 | * | * | CW | 1 | 18 | 3 | * | 4 | * | * | 1 | 2 | 13 |
| White-breasted Nuthatch | 3 | 64 | 7 | 6 | 24 | 29 | 28 | 16 | 11 | 46 | * | * | * | 6 | 2 | 21 | 52 | 45 | 22 | 26 | 49 | 26 | 5 | 15 | 13 | 21 | 11 |
| Brown-headed Nuthatch | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 30 | 6 | * | * | * | * | * | * | * | * |
| Brown Creeper | 17 | 11 | 4 | 6 | 15 | 5 | 6 | 2 | 3 | 13 | 20 | 1 | * | 1 | * | 13 | 4 | 9 | 11 | 2 | 5 | 6 | * | 3 | 11 | 2 | 6 |
| Carolina Wren | 153 | 187 | 61 | 35 | 103 | 69 | 44 | 104 | 74 | 107 | 83 | 27 | 8 | 9 | 4 | 110 | 81 | 167 | 111 | 71 | 197 | 29 | 28 | 45 | 74 | 81 | 32 |
| House Wren | 1 | 1 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 1 | 1 | * | * | * | * | * | * | * | * |
| Winter Wren | 11 | 13 | 5 | 6 | 15 | 3 | 3 | 3 | 3 | 4 | 5 | 2 | * | 1 | 1 | 12 | 4 | 4 | 19 | 7 | 8 | 6 | * | 1 | 7 | 2 | 5 |
| Sedge Wren | * | * | * | * | 1 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| Golden-crowned Kinglet | 80 | 44 | 22 | 47 | 56 | 29 | 77 | 21 | 18 | 52 | 55 | 3 | 5 | 7 | 12 | 79 | 28 | 78 | 375 | 120 | 137 | 221 | 7 | 26 | 140 | 43 | 57 |
| Ruby-crowned Kinglet | 32 | 38 | 11 | 10 | 115 | 9 | 40 | * | 12 | 3 | 4 | 2 | * | 3 | 1 | 73 | 4 | 72 | 78 | 13 | 28 | 27 | * | 3 | 4 | 9 | * |
| Blue-gray Gnatcatcher | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | CW | * | * | * | * | * | * |
| Eastern Bluebird | 49 | 10 | 80 | 103 | 301 | 78 | 109 | 164 | 98 | 153 | 50 | 140 | 107 | 41 | 171 | 176 | 371 | 362 | 205 | 174 | 140 | 27 | 108 | 77 | 105 | 57 | 34 |
| Hermit Thrush | 14 | 12 | 2 | 2 | 9 | 6 | 12 | 1 | 20 | 8 | 9 | 2 | 6 | 1 | * | 18 | 14 | 16 | 48 | 20 | 4 | 9 | * | 2 | 11 | 8 | * |

# THE 1991 CHRISTMAS BIRD COUNT

| *Species* | Memp | Reel | Dres | Jack | Sav | CCWR | Buff | Clark | Colu | Nash | Hick-Pr | Murf | Leba | High | McMinn | Nick | Cooke | Chat | Hiwa | Norris | Knox | GSMNP | Gree | King | Eliz | Bris | Roan |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| American Robin | 359 | 44 | 18 | 258 | 2,733 | 48 | 6 | 56 | 1,900 | 1,421 | 357 | 20,000 | 134 | 111 | 466 | 3,321 | 417 | 935 | 1,415 | 166 | 273 | 373 | 2,130 | 256 | 656 | 608 | 184 |
| Gray Catbird | 1 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| Northern Mockingbird | 194 | 41 | 42 | 100 | 26 | 16 | 43 | 102 | 65 | 143 | 127 | 65 | 38 | 35 | 56 | 46 | 77 | 106 | 50 | 27 | 246 | 8 | 45 | 74 | 52 | 79 | 8 |
| Brown Thrasher | 35 | 4 | 12 | 13 | 9 | 8 | 5 | 3 | 2 | 3 | 4 | 5 | * | 4 | 3 | 24 | 10 | 14 | 18 | 5 | 9 | 1 | * | * | * | 1 | 1 |
| American Pipit | 2 | * | * | * | 20 | 8 | * | * | * | * | * | * | * | 20 | 13 | 5 | 1 | * | 83 | | * | * | * | * | * | * | * |
| Cedar Waxwing | 68 | 6 | CW | 16 | 1,221 | 444 | 199 | 125 | 156 | 189 | 49 | 17 | * | 38 | 397 | 817 | 108 | 3,740 | 726 | 349 | 519 | 48 | 53 | 236 | 66 | 272 | 21 |
| Loggerhead Shrike | 17 | 25 | 8 | 11 | 7 | 5 | 13 | 7 | 9 | 13 | 9 | 14 | 4 | 5 | 8 | 2 | 18 | 3 | 6 | 4 | 6 | 1 | 3 | 7 | * | 3 | * |
| European Starling | 1,528 | 3,138 | 5,038 | 1,437 | 452 | 330 | 290 | 698 | 170,000 | 3,693 | 3,286 | 10,000 | 841 | 864 | 7,470 | 991 | 925 | 11,000 | 1,733 | 2,335 | 2,615 | 215 | 668 | 3,063 | 1,317 | 3,720 | 302 |
| Orange-Crowned Warbler | * | 1 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| Blk-throated Blue Warbler | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 1 | * | * |
| Yellow-rumped Warbler | 50 | 204 | 15 | 7 | 157 | 29 | 8 | 19 | 19 | 38 | 28 | 23 | 32 | 2 | 84 | 238 | 146 | 264 | 491 | 338 | 57 | 48 | 44 | 264 | 54 | 102 | * |
| Pine Warbler | 2 | * | * | * | 16 | 3 | 1 | * | * | * | * | * | * | * | * | 6 | * | 31 | 64 | 3 | * | * | * | * | * | * | * |
| Palm Warbler | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 3 | * | 4 | * | * | * | * | * | * | * | * | * |
| Yellow-breasted Chat | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 1 | * | * | * | * | * | * | * | * | * |
| Northern Cardinal | 421 | 244 | 279 | 402 | 224 | 251 | 167 | 354 | 148 | 347 | 169 | 82 | 74 | 94 | 71 | 277 | 186 | 364 | 204 | 118 | 352 | 70 | 84 | 112 | 118 | 139 | 34 |
| Rufous-sided Towhee | 78 | 7 | 33 | 14 | 46 | 51 | 23 | 37 | 30 | 54 | 43 | 12 | 9 | 8 | 13 | 100 | 45 | 124 | 104 | 36 | 81 | 17 | 3 | 17 | 22 | 26 | 9 |
| American Tree Sparrow | * | 23 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| Chipping Sparrow | 20 | 6 | 2 | 9 | 4 | * | * | * | * | 5 | * | * | * | * | * | 2 | CW | 26 | 10 | 10 | 11 | * | 1 | * | * | * | * |
| Field Sparrow | 159 | 99 | 61 | 235 | 305 | 27 | 195 | 32 | 70 | 80 | 52 | 11 | 10 | 23 | 135 | 96 | 71 | 193 | 165 | 86 | 177 | 45 | 21 | 62 | 22 | 81 | 14 |
| Vesper Sparrow | * | * | * | * | 1 | 1 | 1 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| Savannah Sparrow | 30 | 2 | 2 | 7 | 165 | 37 | 10 | * | 9 | 2 | 1 | 2 | * | * | * | 182 | 1 | 37 | 118 | 7 | 4 | * | * | 3 | * | * | * |
| Grasshopper Sparrow | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 1 | * | * | * | * | * | * | * | * | * |
| Le Conte's Sparrow | 2 | * | * | * | 3 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| Fox Sparrow | 46 | 8 | 4 | 6 | 2 | 8 | 10 | 3 | 4 | 5 | 8 | 4 | * | * | * | 4 | 4 | 3 | 9 | 2 | 1 | * | * | 1 | 2 | 2 | 2 |
| Song Sparrow | 362 | 122 | 100 | 152 | 312 | 168 | 235 | 39 | 96 | 108 | 165 | 17 | 9 | 15 | 31 | 336 | 172 | 497 | 493 | 166 | 389 | 60 | 63 | 152 | 249 | 167 | 81 |
| Lincoln's Sparrow | * | * | * | * | * | 1 | * | * | 1 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| Swamp Sparrow | 58 | 102 | 28 | 26 | 139 | 171 | 21 | 26 | 63 | 11 | 28 | 21 | * | 3 | 37 | 38 | 25 | 123 | 111 | 12 | 13 | 3 | 20 | 6 | 16 | 2 | * |
| White-throated Sparrow | 678 | 510 | 135 | 226 | 390 | 184 | 156 | 75 | 132 | 210 | 185 | 49 | 35 | 18 | 6 | 471 | 90 | 478 | 396 | 209 | 579 | 142 | 118 | 227 | 355 | 230 | 38 |
| White-crowned Sparrow | 40 | 4 | 13 | 67 | 4 | 8 | 23 | 22 | 43 | 28 | 14 | 9 | * | 1 | * | 2 | 12 | 6 | 21 | 15 | 6 | * | 21 | * | * | 1 | 1 |
| Dark-eyed Junco | 312 | 186 | 138 | 337 | 434 | 263 | 73 | 213 | 64 | 205 | 76 | 75 | 10 | 21 | 64 | 124 | 64 | 144 | 246 | 66 | 156 | 172 | 18 | 78 | 159 | 172 | 195 |
| Lapland Longspur | 10 | * | * | * | 40 | 3 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| Smith's Longspur | 1 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| Red-winged Blackbird | 40,623 | 6,379 | 303 | 171 | 2,140 | 1,931 | 5,844 | 42 | 300 | 100 | 264 | 600 | * | 53 | 15 | 88 | 47 | 428 | 690 | 2 | 190 | 25 | * | 350 | * | * | 1 |
| Eastern Meadowlark | 148 | 160 | 209 | 115 | 395 | 126 | 121 | 27 | 89 | 47 | 116 | 67 | * | 93 | 81 | 152 | 182 | 180 | 155 | 185 | 78 | 50 | 64 | 110 | 26 | 61 | * |
| Rusty Blackbird | 419 | 16 | * | * | 50 | 38 | * | * | 527 | * | 16 | 200 | * | * | * | 2 | 6 | 40 | 56 | * | * | * | * | * | * | * | * |

# THE 1991 CHRISTMAS BIRD COUNT

| *Species* | Memp | Reel | Dres | Jack | Sav | CCWR | Buff | Clark | Colu | Nash | Hick-Pr | Murf | Leba | High | McMinn | Nick | Cooke | Chat | Hiwa | Norris | Knox | GSMNP | Gree | King | Eliz | Bris | Roan |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Brewer's Blackbird | 2 | * | * | * | 83 | * | * | * | * | * | * | * | * | * | * | * | 19 | * | * | * | * | * | * | * | * | * | * |
| Common Grackle | 3,016 | 50,534 | 4,004 | 904 | 2,597 | 182 | 5,821 | 41 | 100,000 | 48 | 319 | 5,000 | 43 | 1,500 | 27 | 263 | 153 | 6,480 | 24 | 20 | 50 | * | 2 | 100 | * | 3 | * |
| Brown-headed Cowbird | 758 | 252 | 6 | 1 | 202 | 158 | 1,609 | * | 12,000 | 12 | 7 | 5,000 | * | 250 | 9 | 12 | 4 | 122 | 13 | 2 | * | 1 | * | * | 14 | * | * |
| blackbird sp. | * | * | * | * | * | * | 2,000 | 5,020 | * | * | * | * | * | 100 | * | 5,000 | 10 | * | * | * | * | * | * | * | * | * | * |
| Purple Finch | 10 | * | 6 | 5 | 16 | 25 | 12 | * | 1 | * | 1 | * | * | 3 | * | * | 18 | * | 49 | 11 | 29 | 1 | 28 | 45 | 1 | CW | * |
| House Finch | 200 | 5 | 11 | 136 | 258 | 63 | 11 | 12 | 106 | 242 | 59 | 400 | 30 | 39 | 350 | 143 | 401 | 393 | 40 | 249 | 237 | 48 | 148 | 272 | 51 | 161 | 12 |
| Pine Siskin | * | * | * | * | 1 | 9 | 2 | * | 1 | 6 | * | * | * | * | * | 3 | 1 | 3 | 6 | * | 1 | 15 | * | * | * | * | 173 |
| Red Crossbill | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | 37 | * | * | * | * | 4 |
| American Goldfinch | 99 | 80 | 79 | 107 | 282 | 107 | 42 | 52 | 268 | 77 | 39 | 25 | 11 | 20 | 73 | 224 | 122 | 222 | 236 | 295 | 180 | 230 | 41 | 157 | 74 | 101 | 17 |
| Evening Grosbeak | * | * | * | * | 5 | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * | * |
| House Sparrow | 225 | 163 | 41 | 122 | 31 | 13 | 195 | 35 | 25 | 54 | 77 | 15 | * | 110 | 74 | 98 | 101 | 47 | 58 | 12 | 46 | 5 | 34 | 72 | 50 | 17 | 75 |
| Total Species | 90 | 101 | 65 | 65 | 96 | 100 | 71 | 64 | 89 | 78 | 83 | 64 | 42 | 80 | 57 | 93 | 78 | 99 | 96 | 67 | 82 | 64 | 58 | 70 | 67 | 71 | 52 |

*The Migrant*, 63 (1): 18, 1992.

# THE 1990 COOKEVILLE CHRISTMAS BIRD COUNT

The following count for Cookeville was conducted for the 1990 season but was not received in time for publication. It is presented in this format so as not to confuse it with the counts for the 1991 season.

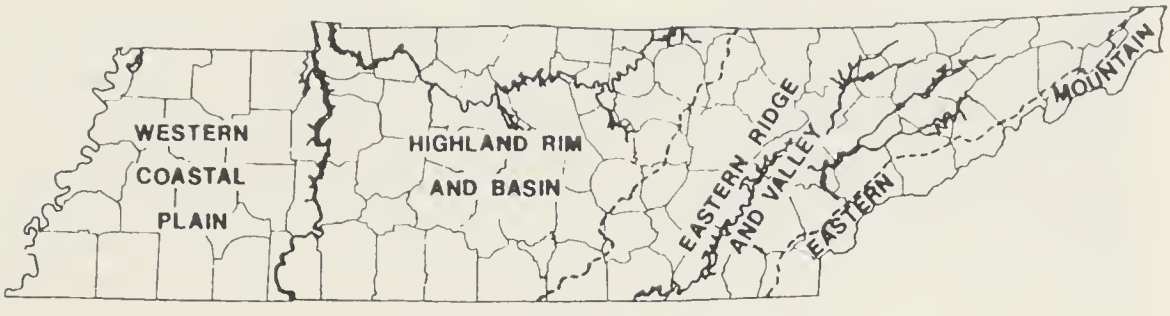
COOKEVILLE — 18 Dec; 0615-1700; cloudy, rain and windy; temp. 45-65 F; 11 observers in 6 parties plus 1 at feeder; 51 party hours (15 on foot, 38 by car) plus 4 at feeder; 358 party miles (4 on foot, 354 by car); 67 species, 14,527 individuals. Jean Cashion, Howard Grace, David Hassler, Robbie Hassler, David Hume, Amy Johnson, Graham Kash, Michael Sanders, Richard Simmers (compiler — Rt. 6, Box 170, Cookeville 38501), Barbara Stedman, Stephen Stedman. CW = seen during count week.

Pied-billed Grebe 5; Great Blue Heron 9; Canada Goose 179; Wood Duck 1; Green-winged Teal 2; Mallard 14; Northern Pintail CW; Redhead 1; Ring-necked Duck 5; scaup sp. 2; Bufflehead 3; Hooded Merganser 20; Turkey Vulture 12; Northern Harrier CW; Sharp-shinned Hawk 2; Hawk accipiter sp. 2; Red-shouldered Hawk 1; Red-tailed Hawk 7; American Kestrel 39; Sandhill Crane CW; Killdeer 121; Common Snipe 1; Rock Dove 142; Mourning Dove 199; Eastern Screech-Owl 3; Great Horned Owl 2; Belted Kingfisher 2; Red-headed Woodpecker 1; Red-bellied Woodpecker 20; Yellow-bellied Sapsucker 2; Downy Woodpecker 18; Hairy Woodpecker 2; Northern Flicker 23; Pileated Woodpecker 6; Eastern Phoebe 1; Blue Jay 116; American Crow 208; Carolina Chickadee 57; Tufted Titmouse 49; White-breasted Nuthatch 21; Brown Creeper CW; Carolina Wren 50; Winter Wren 6; Golden-crowned Kinglet 16; Ruby-crowned Kinglet CW; Eastern Bluebird 115; Hermit Thrush CW; American Robin 13; Northern Mockingbird 34; Brown Thrasher 2; Cedar Waxwing 2; Loggerhead Shrike 6; European Starling 4,761; Yellow-rumped Warbler CW; Northern Cardinal 186; Rufous-sided Towhee 24; Chipping Sparrow 1; Field Sparrow 27; Savannah Sparrow 1; Fox Sparrow 5; Song Sparrow 98; Swamp Sparrow 10; White-throated Sparrow 83; White-crowned Sparrow 7; Dark-eyed Junco 124; Red-winged Blackbird 1,082; Eastern Meadowlark 75; Rusty Blackbird 1; Common Grackle 6,000; Brown-headed Cowbird 7; Purple Finch 2; House Finch 161; finch sp. 95; Pine Siskin 4; American Goldfinch 204; House Sparrow 27.

*The Migrant*, 63 (1): 19-24, 1992.

# THE SEASON

ROBERT P. FORD, Editor




## SUMMER: 1 JUNE - 31 JULY 1991

This summer season was the last of the Breeding Bird Atlas project in Tennessee, and observers spent many hours in the field documenting nesting locations of Tennessee's birds. Among the discoveries of Atlas observers were new populations of Magnolia Warblers and Savannah Sparrows in the Eastern Mountain Region, a second nest record for Spotted Sandpiper in the Western Coastal Plain, and increased populations of Eastern Bluebirds and Cliff Swallows in the Ridge and Valley region. Summer weather patterns were near normal in the state.

Martha Waldron, compiler for the Coastal Plain region, noted the importance of our field observations to various agencies that frequently request data about certain areas. The Season report also provides valuable information to researchers and wildlife managers. No records are unimportant. I encourage all members of the Tennessee Ornithological Society to simply mail copies of your field cards to the appropriate compiler.

Chapters and/or individuals of our society may also consider sponsoring special projects that increase our knowledge about Tennessee birds. For example, summer projects may include documenting nesting distribution of Neotropical migrant birds at a local park, or establishing a Breeding Bird Census plot in an area. Populations of American Kestrels and Loggerhead Shrikes are apparently declining in many parts of the state; another project may be to initiate summer roadside surveys for these species. Such projects are publishable in The Season report or as a Roundtable note in ***The Migrant.***

Unfortunately, at the time of this report, there is no compiler for the Highland Rim and Basin Region. Observers in this region are encouraged to submit significant observations as Roundtable notes to the Editor, Wallace Coffey.

Abbreviations used in this report include: ad-adult, Co.-County, EOP-end of period, ers-earliest recorded sighting for period, et al.-and others, fide-reported by, f-female, im-immature, m-male, m.ob.-many observers, ph-photograph available, WMA-Wildlife Management Area, yg-young.

WESTERN COASTAL PLAIN REGION — The weather for the 1991 season was near normal and cooperative for both avian life and human activity. Observers spent many hours in the field providing data for species distribution and atlasing information. Several waterfowl summer records were reported from Lake County. In Shelby County, a Red Crossbill was photographed at a local feeder in July. Bewick's Wren as well as Bachman's, Lark Sparrow, and Song Sparrow were reported by Atlas observers. Loggerhead Shrike and American Kestrel numbers

were alarmingly low; both species continue to decline. A good regional project may include a breeding season survey of these species.

*Pelican-Falcon:* American White Pelican: 8 Jul (3) LKC (fide WGC). Double-crested Cormorant: 3 Jun (2) Samburg, OBC (RWP). Anhinga: 3 Jul (1) Tatumville Marsh/Macedonia Bottoms, DYC/GBC (MAG). Least Bittern: 2/23 Jun (nesting/yg) Long Point, REL, LKC (WGC); 23 Jul (1 ad, 1 im) Tatumville Marsh, DYC (MAG). Great Egret: 30 Jun (1) DTC (CHB). Snowy Egret: 2 Jun (1) Walnut Log, REL, OBC (RWP). Black-crowned Night-Heron: 2 June (2) DYC; 8/29 Jun (1) Great River Road at Hwy 103, DYC; 9 Jun (1 ad, 1 im) Junction of 79 and Great River Road, LKC; 8 June - 20 Jul (1-13) Is 13; 16 Jun (2) Burnt Woods, LKC; 16/29 Jun (16/8) Great River Road, LKC (WGC). Yellow-crowned Night-Heron: 6 Jul (25+) roost, SBC (MLG, Tim A. Furr). Green-winged Teal: 15-22 Jun (1 m) LKC (WGC), observed flying, third summer record for state. American Black Duck: 16 Jun (1) LKC (WGC). Northern Shoveler: 16-23 Jun (1 m) LKC (WGC), third summer record for state. Ring-necked Duck: 16 Jun - 14 Jul (1 m) Tiptonville, 16-29 Jun (1) Great River Road, LKC (WGC). Lesser Scaup: 9 Jun (1 m) LKC (WGC); 1 Jul-EOP (1) PEF (MLG). Turkey Vulture: 2 Jun (60) Long Point, REL, LKC (WGC). Black Vulture: 2 Jun (11) Long Point, REL, LKC (WGC); 13 Jul (5) MDC (Joyce B. Campion). Osprey: 2 Jun (1) Hwy 79 W, LKC (WGC); 3 Jun (1) Samburg, OBC (RWP); 5 Jun (1) Lake Graham, MDC (JCG); 8 Jun (on nest) Gray's Camp, REL, LKC (WGC). Mississippi Kite: 2 Jun (86) Hwy 79 W, DYC (WGC); 19 Jun (4) REL, LKC (MAG, T. David Pitts); 1 Jun-EOP (5-35) SFP (MAG); 5 Jul (1) Nixon Creek, HYC (GRP, JBP, MGW, TMI). Sharp-shinned Hawk: 15 Jun (1) Carney Rd, HYC (Ben B. Coffey, Lula C. Coffey); 24 Jun (1) Kelly Rd, near MDC line (VBR, CHB), 15 Jul (1) MEM (MGW). Cooper's Hawk: 13 Jun (1) SFP (MAG); 22 Jun (1) Hatchie Rd north of Garrett Rd, MDC (DPB, MGW); 14 Jul (im. dead) SFP (MAG). Red-shouldered Hawk: 1 Jun - 7 Jul (1+) Lauderdale Co., HEC, HYC, MNC, HAC, CST, MDC, and LKC (m.ob.). American Kestrel: 1 Jun - 7 Jul (1+) SBC, HYC, MDC, DYC, and TIP (m.ob.); this species has declined in numbers throughout west Tennessee. Nesting boxes were placed along Interstate 40 from Lakeland, SBC, to Brownsville, HYC, in 1989 to provide artificial nesting sites. Knox Martin reports it is too early to determine their success, although this type of project has been successful in other states.

*Shorebirds:* The EARTH complex (TEC) played host to the expected species of shorebirds this season. Their numbers were noticed by a core of birders (CHB, DPB, MLG, DoM, VBR, DLW, MGW) who had someone at the "pits" every other day. This report reflects only selected species; for a complete record contact the regional compiler. Black-bellied Plover: 22 Jun (1) Great River Rd, LKC (WGC). Lesser Golden-Plover: 22 Jun (1) Great River Rd, LKC; 6-7 Jul (4-2) Jct Hwy 103 and Great River Rd, DYC (WGC). Piping Plover: 20/30 Jul (1) Is 13 (WGC/MAG). Black-necked Stilt: 30 May-EOP (18-31+) TEC. The highest count for one day was 31+, w/ four sets of 2-4 yg, 6 nests (DPB, DoM, MGW); 7 Jul (14 ad, 4 yg, 3 nests) north MEM (CHB, VBR, MGW), a second nesting site for SBC; 6 Jul (4) Is 13 (WGC). Since the stilts were first observed in 1981 they have since been recorded in DYC, LKC, Lauderdale, and Fayette Cos. Arkansas and Missouri reported nesting stilts this year. Missouri's first nesting occurred in 1990, but local farmers reported seeing the birds for "several" summers prior to 1990. Solitary Sandpiper: 9 Jun - 7 Jul (1-9)

Moss Island WMA, DYC;16 Jun/16 Jul (1/4) LKC (WGC); 6 Jul-EOP (6-47) TEC. Spotted Sandpiper: 6 Jul (3 ad, 2 yg) Hwy 79 W, first nesting record for LKC and second for region; 29 Jul (16) SFP/Mississippi River; 30 Jul (30) Is 13 (MAG). Upland Sandpiper: 23 Jun (1) TEC (DPB, DoM, MGW). Sanderling: 20/27/30 Jul (1/3/1) Is 13 (WGC/MAG). Western Sandpiper: 21 Jul (4) Is 13 (WGC); 28 Jul TEC (MLG). White-rumped Sandpiper: 2 Jun (approx. 75) Great River Road, LKC (WGC); 2/8 Jun (85/1) TEC (DLW); 29 Jun (2) Is 13 (WGC); 30 Jul (1) TEC (Barbara H. Wilson, VBR, MGW). Dunlin: 2 Jun (1) Great River Road, LKC (WGC). Buff-breasted Sandpiper: 14 May (1) TEC (DoM, VBR), second spring record in state. Common Snipe: 8 Jun (1) DYC, 6 Jul (1) Moss Island WMA (WGC), first June and July record for region.

*Gull-Shrike:* Ring-billed Gull: 29 Jun/20 Jul (1/2) LKC (WGC). Caspian Tern: 7 Jul (1) Mississippi River, TIP (JBG). Common Tern: 30 Jul (3) Is 13 (MAG). Least Tern: 8 Jun (16, 7 nests, 3 sets of 3 eggs and 4 sets of 2 eggs) Hwy 79 W, LKC (WGC). Black Tern: 2 Jun (2) TEC (DLW); 30 Jun/20Jul (1/13) Is 13 (WGC); 7 Jul (2) Mississippi River, TIP (JBG). Olive-sided Flycatcher: 1 Jun (1) HYC (DoM, VBR, MGW, James E. Waldron). Purple Martin: 28 Jul (5,000+) SFP/Mississippi River (MAG). Tree Swallow: 2-15 Jun (nesting) Jct. Hwy 103 and Great River Road, DYC (WGC); 2/16 Jun (nesting/feeding yg) Long Point, REL, LKC (WGC); 9 Jun (nesting) Ponderosa area, DTC (CHB). Bank Swallow: 19 Jun (100+) Heloise, DYC (MAG); 7 Jul (27 holes, 6-7 active) Mississippi River, Hickman Bar, (JBG). Cliff Swallow: 2 Jun (1) Carter Creek and Old Mercer Rd, HYC (James A. Ferguson, Sue C. Ferguson). Fish Crow: 23 Jun - 30 Jul (2-25) Is 13 (WGC/MAG); 18 Jul (18) SFP (MAG). Bewick's Wren: 16 Jul (2 ad, 1 ad) two sites near Old Gillis Mill, HDC (DJS). Loggerhead Shrike: 1 Jun - 7 Jul (1+) HYC, MNC, CST, LKC, MDC, HAC, Fayette Co. and HEC (m.ob.); population has declined recently in west Tennessee.

*Warbler-Siskin:* Pine Warbler: 1 Jun (feeding yg) east SBC (MLG), first reported breeding record for SBC. Black-and-white Warbler: 25 May (1) MDC (VBR, MGW, Patricia S. Ardivino); 9 Jun/20 July (1) Ponderosa area, DTC (CHB); 22 Jun heard in CST, MNC and HEC (RDH, ARH); 5 Jul (2) HYC (GRP, JBP, MGW, CHB, TMI). Swainson's Warbler: 6-8 Jun (4) SFP (MAG); 19 June (1) Walnut Log, REL, OBC (MAG); 22 Jun (1) southwest MDC (DFV); 22 Jun (1) Hwy 64 and Clear Creek, HDC (KHD, LHD); 22 Jun (1) east of Henderson, south of Hwy 100 (RDH, ARH); 23 Jun (1) southcentral HAC (CPN). Scarlet Tanager: 3 Jun (1) Samburg, OBC (RWP), 9 Jun (pair, nesting) Ponderosa area, DTC (CHB). Bachman's Sparrow: 6 Jul (15 ad, 9 im) four new sites, three near Old Gillis Mill, one near Alabama/Tennessee state line southwest of Walnut Grove, HDC (DJS). Lark Sparrow: 19 Jun (ad feeding yg) east of Henderson, south of Hwy 100, CST; 20 Jun (1) east of McNairy, one half mile south of 199 MNC; 22 Jun (2 ad with fledglings) south of Middle Fork Creek on Brown School Rd, HEC (ARH, RDH). Grasshopper Sparrow: 1 Jun (1) northwest CST (GRP, JBP); 2 Jun (1) southwest HEC (William B. Fowler, GRP); 16 Jun (1) Hwy 79 W, LKC (WGC); 19 Jun (1) east of Henderson, south of Hwy 100, CST, 20 Jun (7) east of McNairy, south of 199, MNC, 22 Jun (3) east of HEC/CST line (ARH, RDH); 2 Jun (1) MDC/HED line (DFV); 22 Jun (1) southwest MDC (CPN); 25 Jun (1) southeast HEC (John Spence, GRP, JBP). Song Sparrow: 14 Jul-EOP (4-6) TEC (DPB, VBR, MGW). House Finch: 2-3 Jun (1) Samburg, OBC (RWP); nesting in three

different sites in Savannah, HDC (DJS). Red Crossbill: 20 Jul (1, ph) northeast MEM (Richard R. Spore, Beverly N. Spore, ph by JAF), second summer record for SBC.

*Locations:* CST-Chester Co.; DTC-Decatur Co.; DYC-Dyer Co.; GBC-Gibson Co.; HAC-Hardeman Co.; HDC-Hardin Co.; HEC-Henderson Co.; HYC-Haywood Co.; Is 13-Island 13, Lake Co.; LKC-Lake Co.; MDC-Madison Co.; MEM-Memphis, Shelby Co.; MNC-McNairy Co.; OBC-Obion Co.; PEF-Penal Farm, Shelby Co.; REL-Reelfoot Lake, Lake and Obion Cos.; SBC-Shelby Co.; SFP-Shelby Forest State Park, Shelby Co.; TEC-The EARTH Complex, Shelby Co.; TIP-Tipton Co.

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HIGHLAND RIM AND BASIN REGION — Currently, there is no compiler for the Highland Rim and Basin Region. As a result, no report is available. Those with significant observations, and/or compilations of areas or species, in the region are encouraged to submit those data as a Roundtable note to ***The Migrant.***

EASTERN RIDGE AND VALLEY REGION — Temperatures and precipitation were both near normal regionwide this season. By summer's end, it was evident that most fruit, nut and seed crops were excellent. Conditions were nearly perfect for the region's breeding birds and most appeared to respond accordingly — bluebirds, in particular, fledged many young in the northeasternmost counties of the region. Birders working to finish the Atlas project reported several interesting observations, detailed below with other noteworthy sightings.

*Loon-Ibis:* Common Loon: 10 Jun (1) Baylor Lake, HLC (WGH); 16-27 Jun (1) Patrick Henry Lake, SLC (SMS); 7 Jul (1) HRA (KHD, CDB); unusual number of summer records. Pied-billed Grebe: 13 Jul (1) CHL (KHD, LHD). Double-crested Cormorant: 1 Jun (1) Nickajack Lake, MAC (KHD); 3 Jun (1 ad, 3 im) below Nickajack Dam, MAC (Robert L. Pierce); 8 Jun (3) Cherokee Lake, Grainger and Hamblen Cos. (SMS); 7 Jul (1) HRA (KHD, CDB). Great Egret: 16 Jun (1) CHL (Elena S. Killian); 13 Jul (3) Rankin Bottoms, Cocke Co. (JAK); 21 Jul (1) Johnson City (Martha Dillenbeck); 25-31 Jul (1-8) BLV (BGM et al.); 2-3 on Knoxville area lakes (fide RDH). Little Blue Heron: 21 Jun/25-31 Jul (1 ad/2-6 im) BLV (BGM, WGH et al.); 13 Jul (1 ad) Rankin Bottoms, Cocke Co. (JAK). Cattle Egret: 27 Jun (10 ad, 5 nests) Hodges Lake, Jefferson Co. (RDH); 7 Jul (1) HRA (KHD, CDB). Black-crowned Night-Heron: 11 Jun-EOP (up to 18) Boone Lake, SLC & WGC (SMS et al.); 16-17 Jul (1-2) Chattanooga (R. John Henderson, WGH). Yellow-crowned Night-Heron: regular, max 13 on 3 Jun, BLV (BGM); 23 Jun (4 ad, 1 im) Reedy Creek, Kingsport (RLK). White Ibis: 24 Jul (2 im) BLV (WGH).

*Teal-Crane:* Blue-winged Teal: 5 Jun (1 m) BLV (BGM). Hooded Merganser: 1 Aug (1 m) Kingston Steam Plant, Roane Co. (ARH). Osprey: 25 active nests on Watts Bar Lake, Meigs, Rhea and Roane Cos., with a total of at least 65 yg fledged (fide Bruce Anderson, Ed Beddow), "highest number ever recorded" at these lakes (KHD); 25 June (1) AUS (GRM, RM). Bald Eagle: 7 Jul (1 ad) HRA (KHD, CDB). Sharp-shinned Hawk: late Jun (1) Greene Co. (RLK). Cooper's Hawk: 30 Jun (2 yg in nest) Bradley Co. (KHD, LHD, James D. Rowell, Jr.); 2 Jul (1) near Johnson City (FJA); 6 Jul (1) Bluff City, SLC (RLK); 16 Jul (1/1) LST/Bristol (RLK); all period (1-2) AMM (James

period (1-3) CHL (KHD). SANDHILL CRANE: 25 Jul (1) Hixson/Soddy area, HLC (WGH), very few summer records in state.

*Shorebirds-Woodpeckers:* Greater Yellowlegs: 18 Jul (4) EBF (ARH), only report. Lesser Yellowlegs: 18 Jul (1) EBF (ARH), ers. Solitary Sandpiper: 6 Jul (1) White Pine, Jefferson Co. (JAK), ers. Spotted Sandpiper: 7 Jul (1) HRA (KHD, CDB), ers. Semipalmated Sandpiper: 18 Jul (3) EBF (ARH), ers. Western Sandpiper: 18 Jul (1) EBF (ARH); 19-20 Jul (2) LST (DEH, RLK). Least Sandpiper: 16 Jul (3) LST (RLK), ers. Pectoral Sandpiper: 18 Jul (11/1) EBF/BLV (ARH/BGM), ers. Short-billed Dowitcher: 18 Jul (1) EBF (ARH); 19-20 Jul (1) LST (DEH, RLK). Ring-billed Gull: 1 Aug (1) Kingston Steam Plant, Roane Co. (ARH). Caspian Tern: 13 Jul (1) AMM (WGH). Forster's Tern: 14 Jul (1) CHL (WGH). Black-billed Cuckoo: 6 Jun (1) near Crossville, Cumberland Co. (RDH, ARH). Barn Owl: 27 Jun (nest with yg) Bristol (J. Wallace Coffey). Chuck-wills-widow: 15 Jun (nest with 2 yg) Ooltewah, HLC (KHD, LHD), nests rarely found. Red-headed Woodpecker: 23 Jun (pair) Kingsport (RLK).

*Passerines:* Willow Flycatcher: 3 Jun (3) BLV (BGM); 5 Jun (1) Wear Cove, Sevier Co. (RDH, ARH); 25 Jun (pair) Melton Hill Lake, Anderson Co. side (RDH); 20 Jul (2-3) HRA (R. John Henderson, Tommie L. Rogers). Purple Martin: 14 Jul (1,000+) Chester Frost Park, HLC (WGH). Tree Swallow: 23 Jun (4) Patrick Henry Lake, SLC (RLK); 7 Jul (2 ad entering cavity, fledged yg nearby) HRA (KHD, CDB). Cliff Swallow: 45 nests under Picken's Bridge, Boone Lake, SLC & WGC; 95 nests under AUS Bridge; 10 Jul (1) Corby Bridge, Nolichucky River, WGC (RLK); population in northeast Tennessee continues to grow. House Wren: 16 Jun (1) Cleveland, Bradley Co. (KHD, LHD). Cedar Waxwing: ad with yg seen at 3 sites in HLC (WGH). Loggerhead Shrike: pair with 2 yg, Univ. Tenn. Farm, Blount Co. (JAK); 3 reports in WGC (RLK). Solitary Vireo: 10 Jun (1) Sequatchie Co. (LHD). Chestnut-sided Warbler: 13 Jul (2 m, plus f feeding 2 yg) near Palmer, Sequatchie Co. at 2,200 ft (671 m) elevation (KHD, LHD, Robert L. Pierce), very far south on Cumberland Plateau. Cerulean Warbler: 28 Jul (1) Signal Mountain, HLC (Jonnie Sue Lyons); 31 Jul (1) Rivermont Park, HLC (WGH); suspected early migrants. Prothonotary Warbler: 25 Jun (pair with 1 yg) AUS (GRM, RM). Dickcissel: from May - 10 Jul (1) LST (DEH); 13 Jul (1) Blount Co. (RDH, ARH); 7-23 Jul (pair with yg) AMM (WGH et al.).

*Addendum:* American Woodcock: 25 Mar/5 Apr (broods of 4/2 yg banded) near Baileyton, Greene Co. (Andy Ammann).

*Locations:* AMM-Amnicola Marsh, Hamilton Co.; AUS-Austin Springs, Washington Co.; BLV-Brainerd Levee, Hamilton Co.; CHL-Chickamauga Lake, Hamilton Co. portion; EBF-Eagle Bend Fish Hatchery, Anderson Co.; HLC-Hamilton Co.; HRA-Hiwassee River Area, primarily Meigs Co, but also Bradley, McMinn and Rhea Cos.; LST-Limestone, Washington Co.; MAC-Marion Co.; SLC-Sullivan Co.; WGC-Washington Co.

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EASTERN MOUNTAIN REGION — Temperatures and precipitation were near normal for the summer period. A good-sized population of Magnolia Warblers was discovered on Unaka Mountain in Unicoi Co.; up to 11 singing males were noted. A good find in Johnson Co. was 8 territorial Savannah Sparrows at three locations.

D. Rowell, Jr.). American Coot: 21 Jun (2) Nickajack Lake, MAC (KHD, LHD); all *Loon-Creeper:* Common Loon: 1-4 Jun (1, winter plumage) Ripshin Lake, CRC (FJA). Double-crested Cormorant: 14 Jun (1) Roan Creek, JOC (RLK); 28 Jun (1) South Holston Lake, SLC (SMS). Green-backed Heron: 19 Jun (nest, 2 yg) WTL (RLK). Yellow-crowned Night-Heron: during Jun (nest, 4 yg) Sycamore Shoals State Park, CRC (Gary Wallace). Cooper's Hawk: 4 Jun (1) Holston Valley, SLC (RPL); 21 Jun (1) Unicoi, UNC (GRM, RM); 25 Jun (1) UNA (FJA). Wild Turkey: 7/28 Jun (1) UNA (FJA, JWN). Northern Bobwhite: 2/24 Jun (1) Round Bald, RNM (RLK, DEH); 23 Jun (1) BBM (GRM, RM); both high elevation. Common Raven: 19 Jun (2) WTL (RLK); 1 Jul (1) Trade, JOC (RLK), usual numbers on RNM, UNA, and BBM. Red-breasted Nuthatch: 1-2 on RNM, UNA, and BBM (RLK, FJA, GRM). Brown Creeper: 24 Jun (1) RNM (RLK); mid-Jul (1) UNA (JWN).

*Thrush-Siskin:* Hermit Thrush: 11 Jun (1) RNM (RLK). Cedar Waxwing: 20 Jul (pair nest building) UNA (RLK). MAGNOLIA WARBLER: from mid-May to 4 Jul (up to 11 singing m) UNA (JWN, FJA). Blackburnian Warbler: 10-11/19 Jun (1) Walnut Mountain, CRC (RLK). Swainson's Warbler: thru Jun (1) Hoss Cove, WAC (RPL); 3 Jun (1) UNA (JWN); 14 Jun (1) Doe Mtn., JOC (RLK); 23 Jun (1) Hartsell Hollow, Buffalo Mtn., WAC (Tom McNeil). Vesper Sparrow: 27 Jun (2) Mill Creek, JOC (RLK); 3 Jul (1) Laurel Bloomery, JOC (RLK). SAVANNAH SPARROW: 16, 25 Jun, 3 Jul (5 singing m, 2 f, distraction display observed) Doe Valley, JOC (RLK); 27 Jun (2 singing m) Mill Creek, JOC (RLK); 3 Jul (pair) Laurel Bloomery, JOC (RLK). Grasshopper Sparrow: common at several sites in JOC (RLK). Red Crossbill: 8 Jun (6) ING (FJA). Pine Siskin: 8 Jun (6) ING (FJA).

*Locations:* BBM-Big Bald Mountain, Unicoi Co.; CRC-Carter Co.; ING-Indian Gap, Great Smoky Mtn. National Park; JOC-Johnson Co.; RNM-Roan Mountain, Carter Co.; SLC-Sullivan Co.; UNA-Unaka Mtn., Unicoi Co.; UNC-Unicoi Co.; WAC-Washington Co.; WTL-Watauga Lake, Carter Co.

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OBSERVERS:

FJA - Fred J. Alsop
DPB - Dianne P. Bean
CDB - C. Del Blum
CHB - Carolyn H. Bullock
WGC - W. Glen Criswell
LHD - Lil H. Dubke
KHD - Ken H. Dubke
JAF - James A. Ferguson
SCF - Sue C. Ferguson
MLG - Murray L. Gardler
JCG - J. Christopher Greene
MAG - Mark A. Greene
JBG - Joe B. Guinn
WGH - William G. Haley
RDH - Ron D. Hoff
ARH - Audrey R. Hoff
DEH - Dan E. Huffine
TMI - Theresa M. Irion
RLK - Richard L. Knight
JAK - Jon A. Koella
RPL - Richard P. Lewis
GRM - George R. Mayfield
RM - Rad Mayfield
BGM - Barbara G. McMahan
DoM - Dollyann Myers
JWN - Jerry W. Nagel
CPN - Charles P. Nicholson
JBP - Jeanne B. Payne
GRP - George R. Payne
RWP - Rob W. Peeples
VBR - Virginia B. Reynolds
DJS - Damien J. Simbeck
SMS - Stan M. Strickland
DFV - David F. Vogt
MGW - Martha G. Waldron
DLW - Dick L. Whittington

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*The Migrant* records observations and studies of birds in Tennessee and adjacent areas. Most articles are written by members of the Tennessee Ornithological Society.

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NOTICE TO RESEARCHERS

Several references in this issue include dates later than the cover date of March 1992. The journal is behind schedule and it has been necessary to use material which, in some cases, was submitted and accepted later in the year.

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